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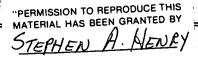
### ABSTRACT

The School District Data Book (SDDB) of the National Center for Education Statistics contains data on over 15,000 local education agencies (LEAs) that make it possible to compare data aggregated at district, county, state, and national levels on hundreds of variables. The SDDB was used to examine differences between the Topeka (Kansas) public school district and surrounding districts to explore the hypothesis that new growth and investment in infrastructure were taking place in the city while the inner city core was in a slow decline. Comparisons with surrounding districts showed a lower child yield rate for the city schools and a substantially higher percentage of vacant housing. Topeka did not have an unusually high number of schools with high concentrations of minority students. Graphic Information System (GIS) software was also used to determine characteristics of the city schools through Census data. The MapInfo and P-Census programs were used to compile information (presented in three attached pages) on the area to be served by two projected Topeka magnet schools. The SDDB and Census-use tools give researchers new tools to analyze a host of student and household demographic variables and school district data. (Contains 4 tables.) (SLD)



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# Research Applications of the National Center for Education Statistics School District Data Book: Lessons Learned from Three LEAs Across the Nation

The Topeka Experience: Uses of the SDDB and other Census and GIS Software in District Planning

Stephan A. Henry, Ph.D. Topeka Public Schools Topeka, Kansas

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Presented as part of an interactive symposium session at the American Educational Research Association's (AERA) Annual Meeting, San Francisco, California, 1995.



# Overview of the SDDB

In July of 1994 the NCES released the SDDB on CD-ROM. Data on over 15,000 school districts is included. The SDDB incorporates a special tabulation of the 1990 US Census data aggregated at the school district, county, state, and national level. The Census data is also integrated with administrative and financial data collected by the Census Bureau for the US Department of Education. The SDDB software makes it possible to build tables comparing data aggregated at the school district, county, state, and national levels on hundreds of variables. Data can also be exported in common formats for analysis with other software such a statistical packages making it possible to study interrelationships among the many variables in the system. The SDDB also has some GIS capabilities making it possible to produce thematic maps down to the level of the individual district.

The SDDB brings unprecedented capabilities to researchers interested in analyzing a host of student and household demographic variables as well as school district administrative and financial data. Even small school districts and researchers with limited resources can conduct sophisticated demographic analyses of school districts. The SDDB will prove useful in research and policy analysis studies at all levels of government.



1

# Policy or Research Issues Identified for Study.

Topeka Public Schools is going through a difficult period and suffering from demographic trends which are common in urban areas. The school district boundaries have been static for nearly thirty years. New growth and investment in infrastructure is taking place in the suburbs while the inner core of the city is in a slow decline. My experiences driving around in Topeka suggested to me that the district has a growing number of unoccupied houses and that children are more evident playing outside in the suburbs. To put these "hypotheses" to the test I formulated the following questions and went to the School District Data Book for the answers.

How does the household yield rate for Topeka Public Schools compare with that of surrounding districts?

Top 100 D17 Households

Top 100 D022 Households with children 5-17

Table 1
Household Yield Rates for Shawnee County Districts

This data obtained using the Profile menu option in SDDB	Topeka Public Schools	Auburn Washburn	Shawnee Heights	Seaman	Silver Lake
Total Households	43061	7852	5102	5808	963
Households with Children 5-17	10000	2674	2083	2191	349
Percent Households with Children 5-17	23.22%	34.06%	40.83%	37.72%	36.24%

**Findings:** Topeka Public Schools also has a much lower child yield rate for housing that is occupied. **Audience & Implications:** This information has been shared with the administrative cabinet. It confirms subjective impressions we had about housing trends in the urban versus suburban areas of the county. It appears that families are disproportionately choosing to live in the suburbs.



How does Topeka Public Schools compare with of surrounding districts in the percent of housing units which are unoccupied?

Top 100 D001 Occupied housing units
Top 100 D002 Unoccupied housing units

Table 2
Housing Data for Shawnee County Districts

This data obtained using the Profile menu	Topeka Public				Silver Lake
Total Housing Units	47553	8328	5297	5909	1039
Vacant Housing Units	4297	533	142	151	42
Percent Units Vacant	9.04%	6.40%	2.68%	2.56%	4.04%

**Findings:** The census data indicates that Topeka Public Schools has a substantially higher percent of vacant housing units than the surrounding districts.

Audience & Implications: This information has been shared with the administrative cabinet. It confirms subjective impressions we had about housing trends in the urban versus suburban areas of the county. It appears that families are disproportionately choosing to live in the suburbs.



Does Topeka Public Schools, a district under court order to desegregate, have an unusual number of schools with a high percentage of minority students?

Source: Common Core of Data, PCTWYT1 to WYT10 variables; subtracted percent of white students from 100 to get percent minority; caution, this procedure may be problematic due to the way Hispanics are treated in the Census.

Table 3
Frequency of Schools with Various Percentages of Minority Students

Percent of Minority Students	Topeka Public Schools	Kansas	USA
95% or more	0	4	4,405
91-95%	0	3	1,185
81-90%	0	2	2,013
66-80%	1	14	3,222
36-65%	12	89	10,819
21-35%	6	153	8,707
11-20%	12	165	8,868
6-10%	3	247	8,274
5% or less	0	782	24,266
No reported data	0	0	9,611

**Findings**: It is apparent that Topeka does not have an unusually high number of schools with high concentrations of minority students.

**Audience/Implications**: This information came to us during the final part of our district court review of our proposed desegregation plan. It might have proved useful in court at an earlier stage.



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# Use of MapInfo and P-Census in Developing School Profiles based on Census Data

The SDDB has some competition in the private sector in the area of district level analysis of Census data. In fact, if one is interested in doing school level Census reporting it is necessary to purchase a full scale Graphic Information System (GIS) software package. In Topeka we have used MapInfo to compile Census data for school profiles for all middle and high schools. This information is used during the baseline data collection phase of Kansas' Quality Performance Accreditation system. We do not do this at the elementary level since the attendance areas are two small to provide a good match to the Census block groups. Your situation may be different especially if you have large elementary schools. The best way to evaluate this is to overlay the Census block group maps over the attendance area maps and check for fit. The fit will seldom if ever be perfect and the software does some fancy mathematics to compensate.

Another use we have made of P-Census and MapInfo is to compile information on the area to be served by two magnet schools which will replace four racially identifiable elementary schools. In addition to admitting students from across the district, the magnet schools will also have an attendance zone providing automatic admission. About three fourths of the students attending the magnets will live within this magnet zone. Table 4 includes selected Census data gleaned from a printout of some 50 pages of Census data produced with MapInfo and P-Census. A few sample pages of this report are attached to this paper.



# Table 4 1990 Census Data for All Persons Profile Compiled for Proposed Magnet School Zone and Comparison Areas Using MapInfo and P-Census

The magnet zone will be served by two racially balanced magnet schools replacing four racially identifiable schools.	Magnet Zone	Topeka Public Schools	Shawnee County	Kansas	USA
Total Population	11,337	98,620	160,976	2,477,574	248,709,873
Percent Minority	50.5	19.3	14.4	11.5	24.3
Educational Attainment less than HS	36%	18%	16%	19%	25%
Average Household Income	\$20,833	\$30,933	\$35,282	\$34,184	Not Avail.
Percent Below Poverty Level-Children <18	44%	20%	14%	14%	18%
Speak Only English	89%	95%	96%	94%	86%
No English or "not well"	2%	.64%	.58%	.88%	3%
Vacant Housing Units	14%	9%	8%	10%	10%
Average Value of Owned Housing	\$30,316	\$52,774	\$63,178	\$61,922	Not Avail.

Findings: These Census variables show that the proposed magnet zone takes in an area of the city with relatively high concentrations of minority persons and persons of low income and education levels.

Audience/Implications: This data will be included in the needs assessment section of a federal grant application currently being developed to seek funds for Topeka's new magnet schools. The data provides additional that residential patterns strongly affect the makeup of school populations.



# Using Mapinfo In Studying Changes to Attendence Areas

We have extensively used MapInfo and a similar product called MapNet to geocode students onto a district map along with their background characteristics, overlay attendance boundaries, and compile summary data on students captured within the boundaries. Once the students are geocoded on the street maps, MapInfo makes it easy to link on student ID number to bring in and thematically map virtually any student characteristic. We have used inexpensive ink-jet printers and high-dollar plotters both of which produce very impressive maps. The only advantage of the high dollar plotters is that they can be used to print large maps of about 34 by 44 inches. We used these maps last year in public forums and federal court to present our desegregation plan.



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	Topeka Pub. Data s	Schools Dept.	ept. of Plan O Census of roup	nning, Popula	, eg	& Demographics d Housing	ics			
SNAPSHOT: PERSONS	Magnet Zone	To To Pu Sch	Topeka Public Schools	All of Shawnee	* n e e e e e e e e e e e e e e e e e e	Kansas	          	uj	.A.	d 11 11 12 13 14 11 11
Population	11,337		======================================	160,976	;; !! !!	2,477,574	       	248709873	0 11 11 11 11 11 11 11 11	H H H H H H
Population/square mile	1,790	2,	2,741	293		30	:	70		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Persons living in households	٠,	60	6	156,901	978	2,394,783	97 <b>%</b>	242050161	978	
Persons in group quarters	487	44 3,	3,187 3*	4,075	<b>*</b>	82,791	<b>1</b> 9	6,659,712	₩°	
Male				77,410	48\$	1,214,860	464	121172379	49%	
Female	5,821 5	51\$ 52,	52,124 53%	83,566	52%	1,262,714	51\$	127537494	51 <b>%</b>	
Average age	8.55	1	<b>1</b> .,	r . cr		n . n n				
White	6,495 5			141,538	88	2,233,897		199827064	<b>\$0</b> \$	
Black	m	_	_	13,044	*	141,957		29,930,524	12%	
American Indian/Eskimo/Aleut	٥		1,265 18	1,816	<u>د</u> مو	23,250	94.	2,015,143	* 180 ·	
Asian/raciiic isianuer Orber race	719	64 2.	•	3.271	2,01	47,356	7 7	9,710,156	e de	
Hispanic origin (any race)	-			7,319	20	90,289		21,900,089	\$6	
Persons 15+ years (* base)	8,240	78,		125,713	ii ii ii	1,913,853		195167742	0 0 0 0 0	11 80 80 80 80 80 80 80 80 80 80 80 80 80
Not presently married	4,535 5	55\$ 37,	37,162 47\$	52,206	428	732,077	38	82,336,251	428	
			41,116 53\$	73,507	584	1,181,776	62\$	112831491	58\$	
Persons 3+ years (%base)	10,758	94,	======================================	154,153	0 8 8	2,367,424	0 II II II	237785294	8 0 0 1 1 1 1 1 1 1	H H H H H H H H H H H H H H H H H H H
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in preprimary/eremen./nign scn In college	•			10,170	, <b>*</b>	187,130		17,917,028	, # 0 00	
Not enrolled in school				113,471	74%	1,699,059		172798193	73\$	
Public school		-	~	35,457	23\$	593,376		54,864,252	23\$	
Private school	396	48 5,	3,284 34		P 11		₽ II	10,122,849 ==========	######################################	             
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By Educational Attainment:	2 463 3	368	11.979 18\$	16.341	16	293,272	198	39,343,718	25\$	
				37,830	36%	514,177		47,642,763	30\$	•
degr				50,624	488	758,487	48\$	71,881,955	45\$	
Persons 16+ years (* base)	8,143	 77,	======================================	123,599	0 0 II II	1,880,434	# #       	191829271		
By Employment Status:		400	#1F 8FC		4.5	25.454	: :	1,708,928		
Circlian participation rate	•		•	68.1		66.3		64.9		
Male civilian part rate	62.5	, ,-	71.8	75.4		75.5		74.0		
Female civilian part, rate *	48.8	· un	58.7	61.6		57.9		56.7		
Employed			9	80,143	<b>65</b> %	1,172,214	62%	115681202	<b>\$</b> 09	
Unemployed	388	5\$ 2,	2,807 4%	3,688	₩ *	57,772	₩ *	7,792,248	4 %	
Unemployment rate	8.7		9.0	4. 4		7. 4		ο α ω 4		
Male unemployment rate	10.6 6 E		1.6	4.		4. 4 8. 4		*. c	,	
Female unemployment rate	u.		J. C	7.2		) r		;		

	Data	source	: 1990 Censu:	Data source: 1990 Census of Population and Housing roup	Data source: 1990 Census of Population and roup	Housing		-
SUMMARY: POVERTY	Magnet	11 9 9 11 11 11	Topeka Public Schools	All of Shawnee Cty		Kansas	All of U.S.A	
Percent of group below the poverty level:	8 11 12 11 11 11 11 11 11 11	II II II II	10 10 10 10 10 10 44 44 44 43 44 44	0 0 0 0 11 11 11 11 11 11 11	          		"	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Total persons	30.6		13.2	10.0		11.5	13.1	
Inder 6 years	51.0		20.8	15.2		16.8	20.1	
	39.7		19.1	13.3		12.9	17.3	
	41.6		19.1	15.2		21.7	19.4	
25 to 34 years *	31.4		13.0	10.4		10.3	11.5	
35 to 44 years	17.7		9.4	6.9		6.9	8.6	
45 to 54 years	16.9		6.1	4.2		0.9	7.5	
	20.9		8.2	6.1		7.7	9.5	
65 years and over	16.4		10.4	9.4		12.0	12.8	
Male	28.2		11.3	8.7		10.0	11.5	
Female	33.0		14.9	11.2		12.9	14.6	
7. 1. 1.	22.4		6.6	7.6		6.6	8.6	
Black	45.3		34.1	32.5		30.0	29.5	
American Indian/Eskimo/Aleut *	28.6		28.0	20.3		21.6	30.9	
Asian/Pacific Islander *	39.1		24.4	20.6		22.2	14.1	
Other race	28.2		18.1	16.3		21.9	28.2	
Hispanic origin (any race) 🕏	35.4		17.4	15.9		19.7	25.3	
Total persons for whom poverty	                	n U U U U	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	D D H			
status is determined (% base)	10,853		95,666	157,104	7	2,391,824	241977859	1
Below the poverty level:								
Under 6 vears	685	9	1,768 2\$	\$ 2,135	1\$	37,548	2\$ 4,331,825	2\$
	843	<b>8</b> 9			2 <b>%</b>	55,518		3.8
18 to 64 years	1,588	15\$			5.	143,254	6\$ 16,533,363	7.8
65 years and over	210	2 %			14	38,303		2\$
Total Families (\$ base)	2,922		25,316	43,025		664,668	65,049,428	
Below the poverty level:		1 						
Married couple family	364	12%	2,927 12\$	\$ 4,601	11\$	82,137	12% 8,051,821	12\$
With related children <18	313	11\$			10%	71,231		-
Other family	נסט	6			į			
CHEL LEWILLY	000	*O.7	1, /1/ ,t	750,7	, 10	27,163	4 3,637,531	*



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EDUCATIONAL ATTAINMENT	Magnet Zone	1 0 H 1 1 1	Topeka Public Schools	! ! ! !	All of Shar	Shawnee	Kansas		ı vs	.A.
Persons 25+ years (% base)	6,877	# # # # #	65,378	11 14 14 11 11	104,795	0 0 0 0	1,565,936	11 11 11 11	158868436	
	1	1 1 1 1 1			1 1 1 1 1 1 1 1 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
		15\$	4,592	78	5,989	<b>%</b> 9	120,951		16,502,211	10%
9th to 12th grade/no diploma		21\$	7,387	118	10,352	10%	172,321		22,841,507	14%
High school graduate		384	22,788	₩ 6	37,830	300	514,177		47,642,763	30%
Some college, no degree	1,177 1	178	14,537	22%	23,649	23%	342,964 BE 146	228	29, 119, 111 9 791 925	1,3% % %
Associate degree Rachalor's degree		0 4 8	8,989	14%	15,595	15.	221,016		20,832,567	13%
Graduate/professional degree		<b>2</b>	4,879	78	7,805	7.8	109,361		11,477,686	78
		H H H						8 8 8		:
Less than 9th Grade (* base)	1,024	1	4,592	! ! !	5,989		120,951		16,502,211	
White	605 5	59%	3,663	<b>\$</b> 0 <b>\$</b>	4,964	83%	104,943	878	11,806,669	72\$
Black		24\$	520	11\$	556	%6	6,534	2	2,306,445	148
American Indian/Eskimo/Aleut	0	<b>*</b> 0		1\$	59	1\$	991	.82%	151,214	.92
Asian/Pacific Islander	9. 9	<b>\$6</b> 9		.83\$	69	1%	2,289	2%	557,894	34
Other race	169 1	178	317	7	341	<b>9</b>	6,194	υ «	1,679,989	10%
Hispanic origin (any race)	276 2	278	625	14\$	674	11\$	9,912	80 80	3,445,912	21\$
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White		56*	5,601	76%	8,405	81%	148,375		17,355,153	768
Black		378	1,423	194	1,514	154	15,556	y .	3,881,40/	۰ ۲ ۲
American indian/Eskimo/Aleuc	4.0	٠ <del>١</del>	123	, 4°	153 153	1 P	1,827	, . <del>.</del>	411.508	
Other race		2 %	194	<b>46</b>	242	2.8	4,431	æ M	972,539	*
Hispanic origin (any race)	129	<b>\$</b>	447	<b>4</b> 9	528	ςς U	7,574	4	2,188,309	10%
High School Graduate (* base)	2,644		22,788		37,830		514,177		47,642,763	
White	1,684 6	64%	19,660	868	34,074	<b>\$</b> 06	478,142		40,891,202	86%
Black		28%	2,144	<b>%</b> 6	2,437	9	23,367	υ \$	4,680,594	10%
American Indian/Eskimo/Aleut		2\$	306	1%	424	1%	4,269	.83%	313,783	.66
Asian/Pacific Islander	0	<b>%</b> 0	73	.32%	133	.35%	2,534	.49%	799,206	, e
Other race	190	<b>*</b>	909	e M	762	<b>%</b>	, 865 c	*	8/6//56	<b>9</b>



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